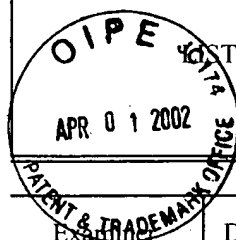


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I69.12-0514Application No.:
10/051,366
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 APPLICANT'S INFORMATION
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First Named Inventor:
Peter Crane et al.Filing Date:
January 18, 2002

Group Art:

U.S. PATENT DOCUMENTS

PATENT & TRADEMARK EXAMINER'S INITIAL		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
RST	AA	6,064,550	05/16/2000	Koganezawa	360	106	03/18/98
	AB	6,043,957	03/28/2000	Hattori et al.	360	106	03/23/98
	AC	5,959,808	09/28/99	Fan et al.	360	106	12/30/97
	AD	5,945,898	08/31/99	Judy et al.	335	78	05/31/96
	AE	5,936,805	08/10/99	Imaino	360	104	12/12/97
	AF	5,920,441	07/06/99	Cunningham et al.	360	78.05	09/22/95
	AG	5,898,544	04/27/99	Krinke et al.	360	104	06/13/97
	AH	5,898,541	04/27/99	Boutaghou et al.	360	109	05/07/97
	AI	5,896,246	04/20/99	Budde et al.	360	104	04/21/97
	AJ	5,867,347	02/02/99	Knight et al.	360	104	06/13/97
	AK	5,863,024	01/26/99	Blind et al.	251	129.01	12/19/95
	AL	5,856,896	01/05/99	Berg et al.	360	104	05/06/97
	AM	5,805,375	09/08/98	Fan et al.	360	78.12	08/22/96
	AN	5,801,472	09/01/98	Wada et al.	310	309	08/13/96
	AO	5,796,558	08/18/98	Hanrahan et al.	360	106	05/15/97
	AP	5,781,381	07/14/98	Koganezawa et al.	360	106	10/09/96
	AQ	5,764,444	06/09/98	Imamura et al.	360	109	02/02/95
	AR	5,745,319	04/28/98	Takekado et al.	360	78.05	04/27/95
	AS	5,657,188	08/12/97	Jurgenson et al.	360	106	06/01/95
	AT	5,638,267	06/10/97	Singhose et al.	364	148	06/15/94
	AU	5,521,778	05/28/96	Boutaghou et al.	360	106	08/30/94
	AV	5,375,033	12/20/94	MacDonald	361	281	01/06/93
	AW	5,364,742	11/15/94	Fan et al.	430	317	09/21/92
	AX	5,303,105	04/12/94	Jorgenson	360	106	12/16/92
RST	AY	5,189,578	02/23/93	Mori et al.	360	106	06/26/90

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate	
RST	AZ	5,177,652	01/05/93	Yamaguchi et al.	360	78.05	04/04/90
	BA	5,034,828	07/23/91	Ananth et al.	360	75	10/16/89
	BB	5,021,906	06/04/91	Chang et al.	360	103	10/31/89
	BC	4,916,635	04/10/90	Singer et al.	364	513	09/12/88
	BD	4,914,725	04/03/90	Belser et al.	318	560	07/10/89
	BE	4,764,829	08/16/88	Makino	360	106	09/29/86
	BF	4,651,242	03/17/87	Hirano et al.	360	103	12/20/84
	BG	4,374,402	02/15/83	Blessom et al.	360	104	06/27/80
RST	BH	3,924,268	12/02/75	McIntosh et al.	360	78	08/05/74

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub Class	Translation Yes No
RST	BI	JP 07-085621	03/31/95	Japan	G11B21	20	Yes (abstract only)
	BJ	JP 05-094682	04/16/93	Japan	G11B21	21	Yes (abstract only)
	BK	JP 63-122069	05/26/88	Japan	G11B21	02	Yes (abstract only)
	BL	JP 06-020412	01/28/94	Japan	G11B21	10	Yes (abstract only)
	BM	JP 04-134681	05/08/92	Japan	G11B21	10	Yes (abstract only)
	BN	JP 04-368676	12/21/92	Japan	G11B21	08	Yes (abstract only)
	BO	JP 02-263369	10/26/90	Japan	G11B21	10	Yes (abstract only)
RST	BP	EP 0 412 221 B1	11/28/89	EP	G11B21	02	Yes

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RST	BQ	"Silicon Micromachined Electromagnetic Microactuators for Rigid Disk Drives" by Tang et al, <u>IEEE Transactions on Magnetics</u> , Vol. 31, No. 6, November 1995
	BR	"Magnetic Recording Head Positioning at Very High Track Densities Using a Microactuator-Based, Two-Stage Servo System" by Fan et al., <u>IEEE Transactions on Industrial Electronics</u> , Vol. 42, No. 3, June 1995
	BS	"A Flexural Piggyback Milli-Actuator for Over 5 Gbit/in ² Density Magnetic Recording" by Koganezawa et al, <u>IEEE Transactions on Magnetics</u> , Vol. 32, No. 5, September 1996
RST	BT	"Transverse Mode Electrostatic Microactuator for MEMS-Based HDD Slider" by Imamura et al, <u>IEEE</u> 1996

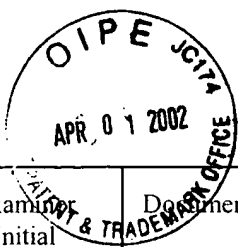
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Gen 4/16.10/051,365

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
RST	BU		"An Experiment for Head Positioning System Using Submicron Track-width GMR Head" by Yoshikawa et al., <u>IEEE Transactions on Magnetics</u> , Vol. 32, No. 5, September 1996			
	BV		"Micro Electrostatic Actuators in Dual-Stage Disk Drives with High Track Density" by Tang et al., <u>IEEE Transactions on Magnetics</u> , Vol. 32, No. 5, September 1996			
	BW		"Piezoelectric Microactuator Compensating for Off-Track Errors in Magnetic Disk Drives" by Imamura et al, <u>Advance Information Storage Systems</u> , Vol. 5, pp 119-126.			
	BX		"A Dual-Stage Magnetic Disk Drive Actuator Using a Piezoelectric Device for a High Track Density" by Mori et al., <u>IEEE Transactions on Magnetics</u> , Vol. 27, No. 6, November 1991.			
	BY		"Dynamic Loading Criteria for 3-1/2 Inch Inline HDD Using Multilayer Piezoelectric Load/Unload Mechanism" by Kajitani et al., <u>IEEE Transactions on Magnetics</u> , Vol. 27, No. 6, November 1991			
RST	BZ		"Design, Fabrication, and Testing of Silicon Microgimbals for Super-Compact Rigid Disk Drives" by Temesvary et al., <u>Journal of Microelectromechanical Systems</u> , Vol. 4, No. 1, March 1995			

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